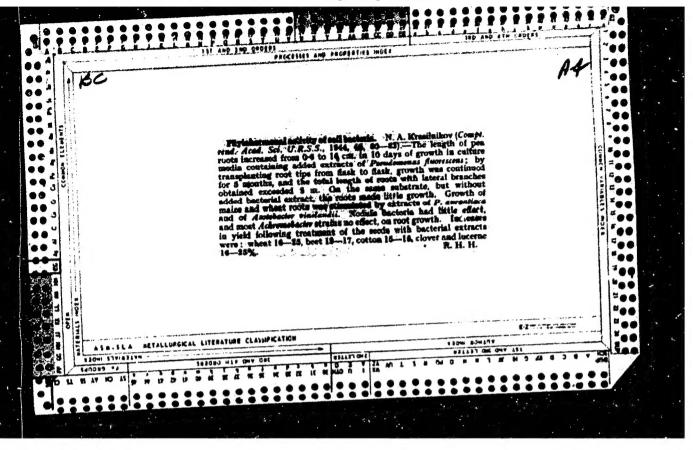
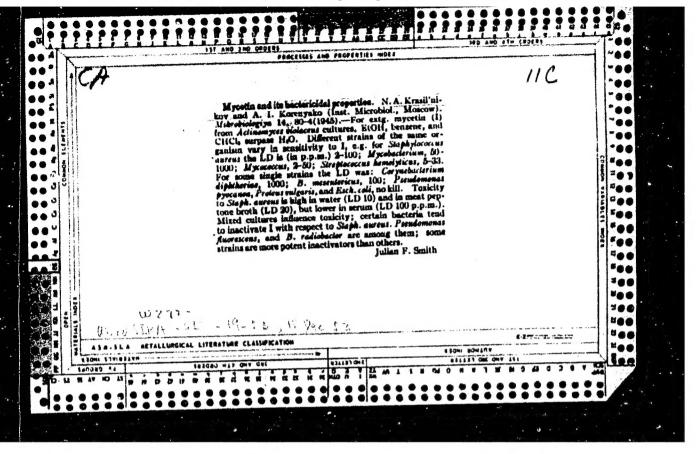
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KRASIL'NIKOV, N. A.

"The Microbiological Foundations of Bacterial Fertilizers," Moscow-Leningrad,
1945

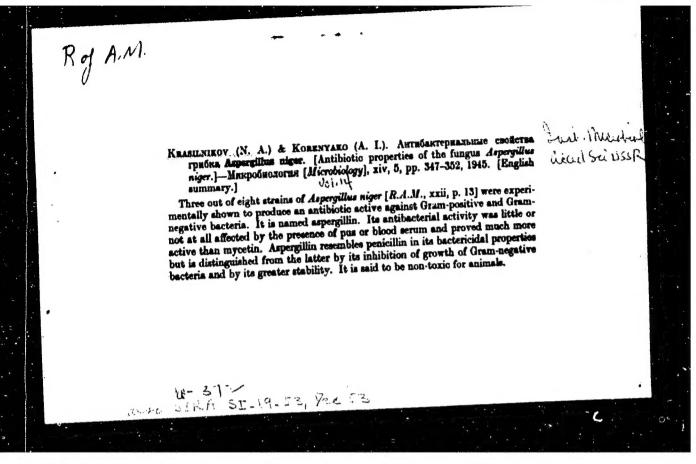
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KRASIL'NIKOV, N. A.

KRASIL'NIKOV, N. A. "Engrefting of New Virulent Characters to Nodule Bacteria and Some Other Bacteria," <u>Mikrobiologiia</u>, vol. 14, no. 4, 1945, pp. 230-236. 448.3 M582

SO: SIRA SI - 19-53, 15 December 1953



KRASIL'NIKOV, N. A.

KRASIL'NIKOV, N. A., and RAZNITSINA, E. A. "Bacterial Method of Fusarium Control in Pine Seedlings," Agrobiologiia, no. 5-6, 1946, pp. 109-121. 20 Ag822

SO: SIRA SI - 19-53, 15 December 1953

KRASIL'NIKOV, N. A. (Coauthor, GARKINA, N. R.) "Microbiologic factors of soil fatigue"

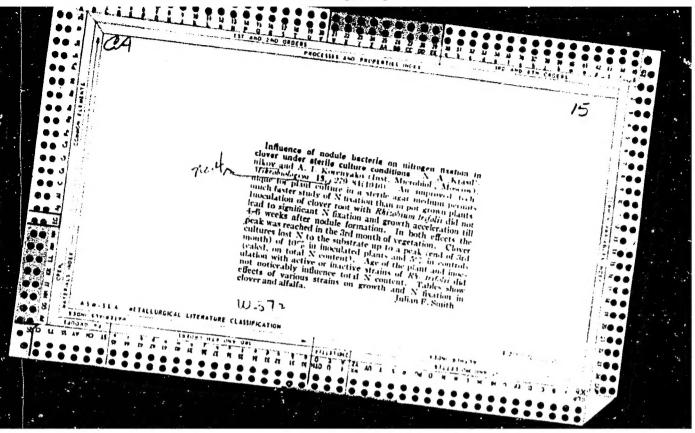
In studying a clover-factored soil of the experimental field of the factory area (and may '17' see established that the process of clover-fatiguing of the soil was caused by a bidibgidal factor.

Inhibitor microorganisms, bacteria and fungi, which lend toxic proper-

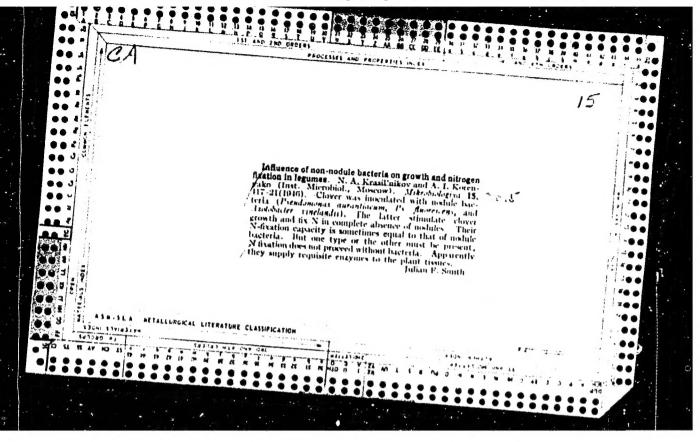
Clarent Antiqued solls are impetively by must treatment, and their testicity can be restaine by astocking them with these inhibitor interches; without such infection. They remain ponterio.

(Fee Strate Line 12, 10 71, 19 2, 194).

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KRASIL'NIKOV, N. A.

KRASIL'NIKOV, N. A., KORENYAKO, A. I., and GARKINA, N. P. "Filterable Forms of Bacteria in the Soil," in Reports of the Scientific-Research House of the Academy of Science USSR, Moscow, 1947, pp.141-142.

SO: SIRA SI - 19-53, 15 December 1953

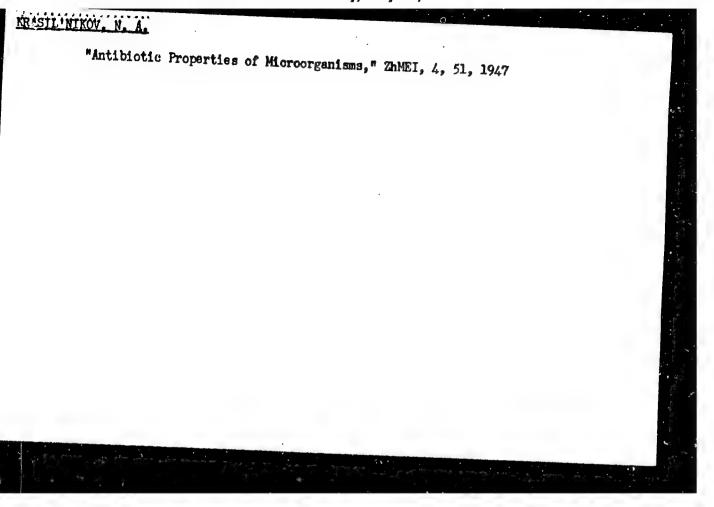
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KRASIL'NIKOV, N. A., and KORENYAKO, A. I. "Bactericidal Properties of Plant Sap,"

in Reports of the Scientific-Research Work for 1945, Department Science USSR, Moscow, 1947, pp. 146-147. 511 Akl44

So: SIRA SI - 19-53, 15 December 1953

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008261100



KRASIL'NIKOV, N. A.

USSR/Medicine - Antibiotica Medicine - Penicillin

**Kay** 1947

"Projects in the Study of Antibiotics," N. A. Kracil'nikov, Corr Mem, Acad Sci USSR, 62 pp

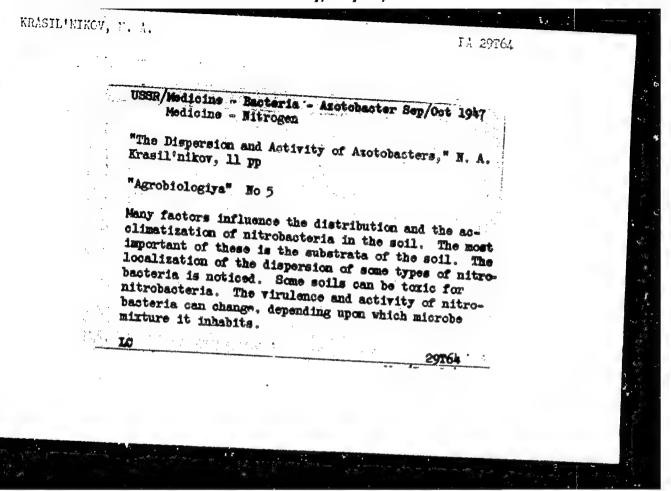
"Vest Akad Nauk SSSR" No 5

Discovery of penicillin opened whole new field of study of microbe-antagonists as means to control pathogenic microbes. Since discovery of penicillin some 40 new substances discovered. These antibiotics are produced by actinomyces, bacteria, or fungus. Discusses antibiotics produced by actinomyces, like streptomycin; those produced by bacteria, like gramicidin; and those formed by fungus, like

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USER/Medicine - Antibiosis Jan 1947 Bactericides	ן ט
"The Antibiotic Properties of Microorganisms," N. A. Krasilnikov, 20 pp	Ħ
"Zhur Obshch Biologii" Vol VIII, No l	*
A study of the microbe-antagonists producing anti- biotic substances (antibiotics) most widely dis- tributed in nature and especially in the soil.	C Y 1
W.486	
B-77915- 10 Aug 54	

## "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826110

KRASIL NIKOV, N.A. The appearance of bacterial colonies Microbiologia, Moscow (U.S.S.R.) 1947, 16/5 (381-393) Illus. 3

The principles for higher organisms cannot be used for the definition of bacterial species: the morphology, cytology, genetics, history, evolution and geographical distribution offer but scanty distinguishing features. Biochemical methods have not developed satisfactorily until now. The great advantage is, however, the possibility of growing bacteria in pure culture on artificial media and of studying their physiology and variability. The immunological study of bacteria is to be adopted more widely in all braches of bacteriology, as it is used in medical microbiology. The study of experimental variability. Variability is a common feature of every bacterial strain, and every species is a changing and developing system. The variants can be definition of Komarov) is the association of generations descended from a common and by the struggle for existence. The author presents extensive experimental and Malek-Prague

KRASIL'NIKOV, N. A.

PA 78T57

USER/Medicine - Penicillin Medicine - Seeds

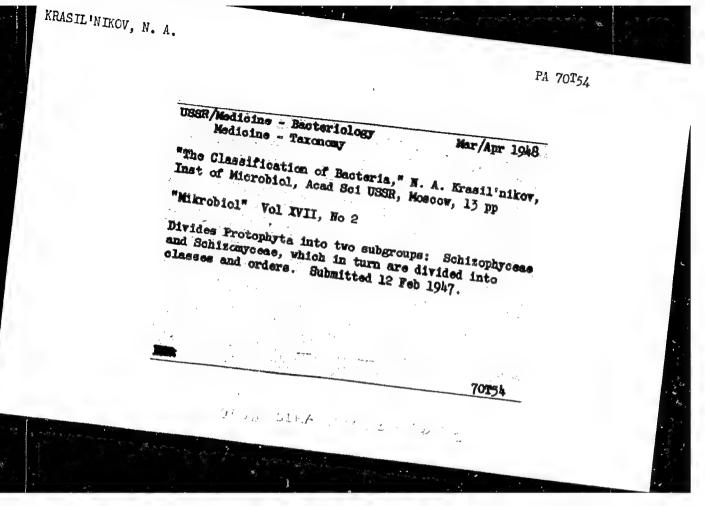
Apr 1948

"Does Penicillin Affect Seed Germination?" D. V. Lebedev, 2 p

"Priroda" No 4

D. F. Ribeiro showed that clinical penicillin greatly lowers growth of seeds. W. J. Smith, however, proved that this does not occur with pure penicillin. Work of N. A. Krasil'nikov, Soviet microbiologist, shows that microorganisms can act not only as antibiotics, but as biotics on higher plants: They should not be used before seeding without exhaustive preliminary investigations.

78257



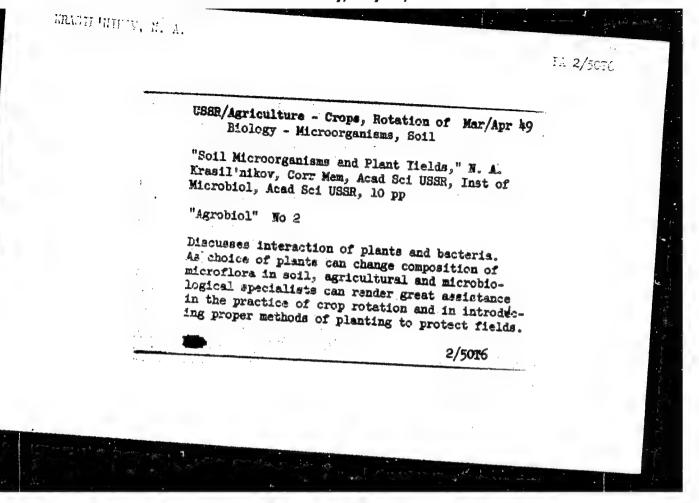
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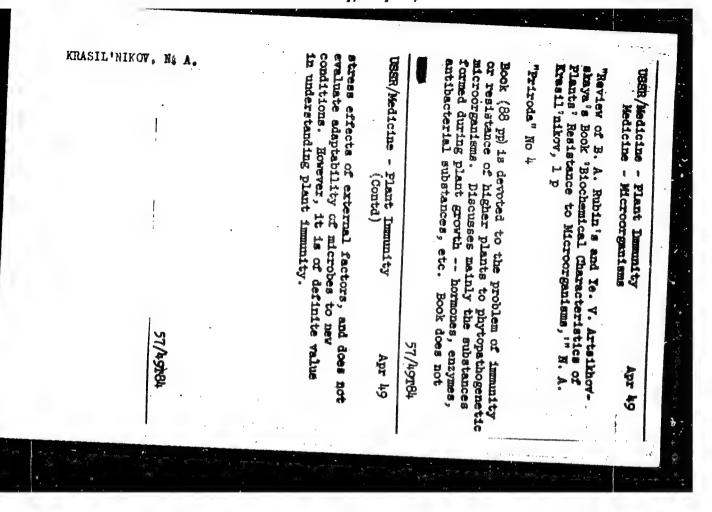
KRASIL'NIKOV, N. A.

Manual for the Identification of Bacteria and Actinomycetes , 1949

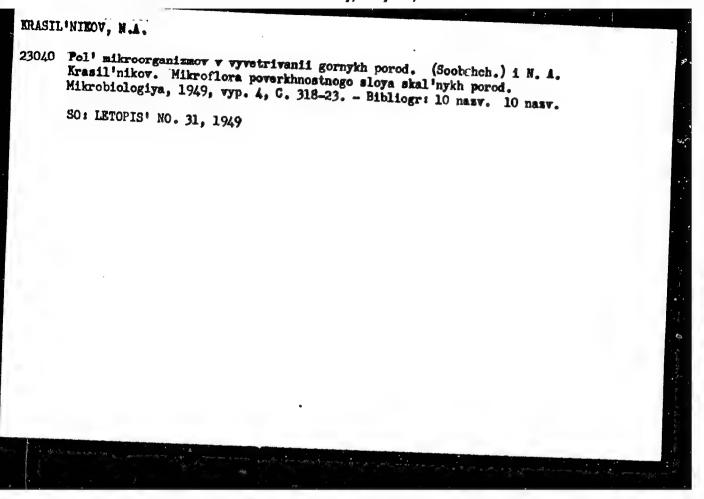
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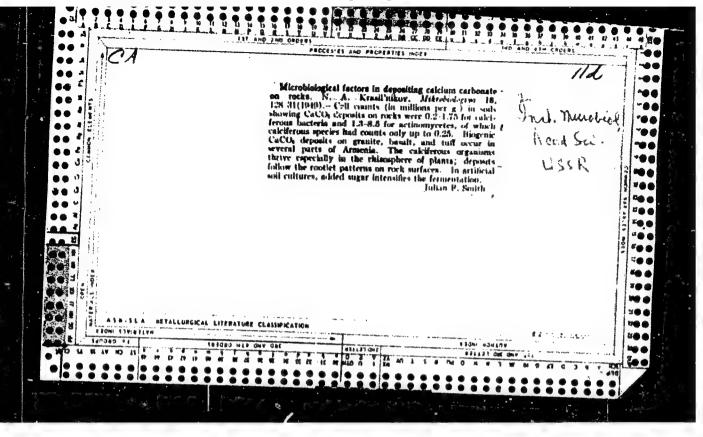
KRASIL'NIKOV. N. A.

Role of Microorganisms in the Weathering of Rocks II: Nidii of Microorganism Propagation on the Surface of Rocks.

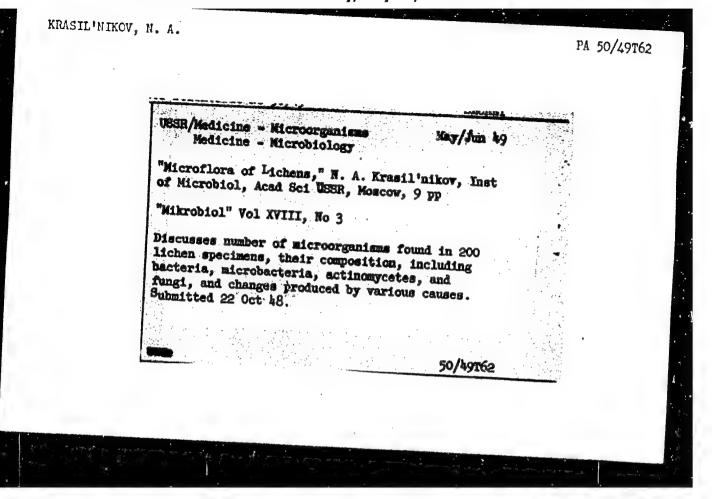
Mikrobiologiya, No 6, 1949, pp 429-97

KRASIL'NIKOV, N. A.			PA 59/49T61
		Made studies of warfous parts of determine press and Ashby and I method with he oumulative subs None revealed Introduced Submitted Submitted	"Makerobiol" Vo
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		20 20 20 20 20 20 20 20 20 20 20 20 20 2	Microbacter  Microbiology  First in Lichens?  Inst of Microbiol, A
	59/kg765	ypes of lichens collected fruss. Used several methods nitrobacter: (1) agar vais nitrobacter: (2) Vinogradskly wafers, (3) method of (4) media with supplementary and (5) microscopic analysis of nitrobacter. Nitrobacter of nitrobacter. 59/49761  Itrobacter (Contd) Jan/feb hens did not grow but died.	Jan/Jeb 49
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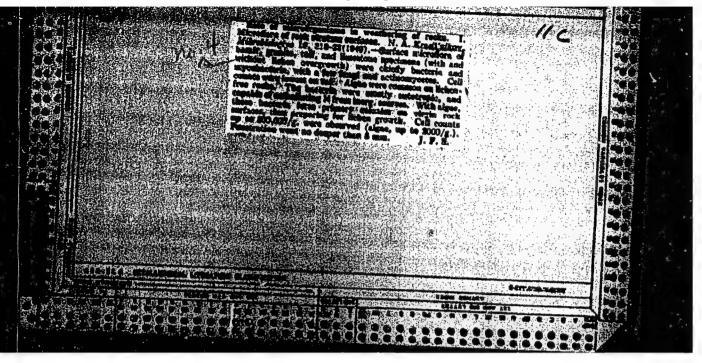
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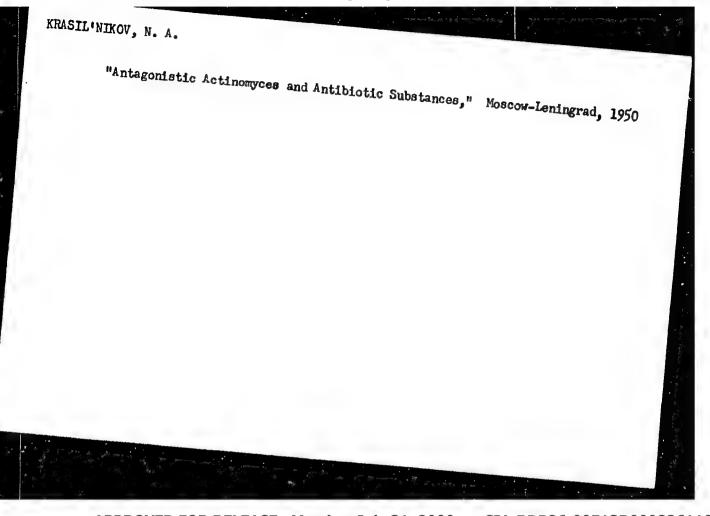


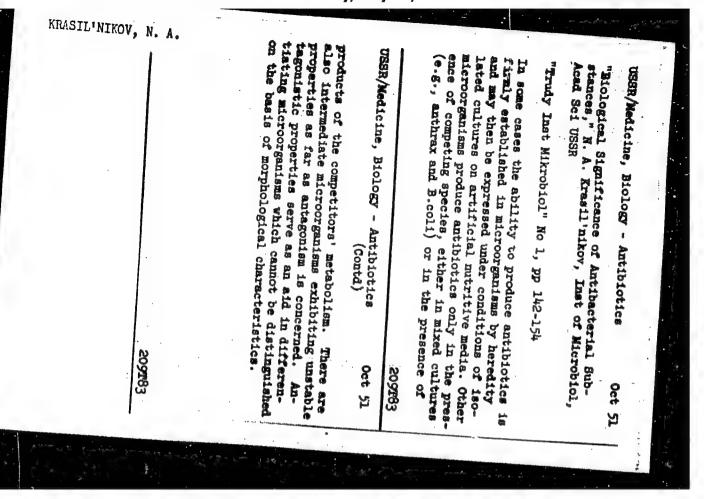
KRASILNIKOV N. A. Actinomyces strains as streptomycin-producers, Microbiology, Moscow 1949, 18/5 (397-401) Illus. 4

From the comparison of the morphological and biochemical features of the streptomycin-producing strains of Actinomyces with Krajnski's original description of Actinomyces griseus, the author comes to the conclusion that the Waksman strains do not belong to the genus Actinomyces griseus Krajnski, but most probably to the genus Actinomyces globisporus, as a new form, A. gl. streptomycini.

The main difference consists in some of the biochemical features and in the form of the spore-bearing hyphae, which are spiral in Act. griseus Krajnski, but straight

So: Medical Microbiology and Hygiene, Section IV, Vol 3, No 1-6





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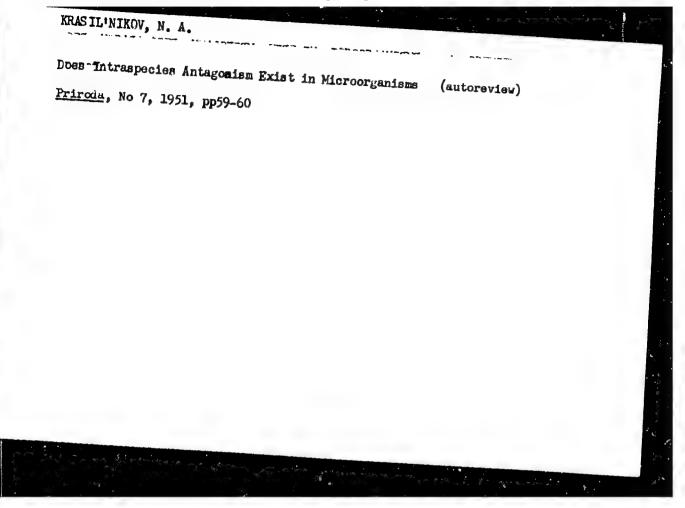
KRASIL WIKOV, N. A. IN Wrote from Institue of Microbiology with A. I. KORENYAKO, M.I. HIKITIHA, Izv, Biol. Ser., #4, 51.pp.66-80

AND G. K. SKRYABIN: "Intra- and Inter-Spectes Relationships and Principles Conclusions:

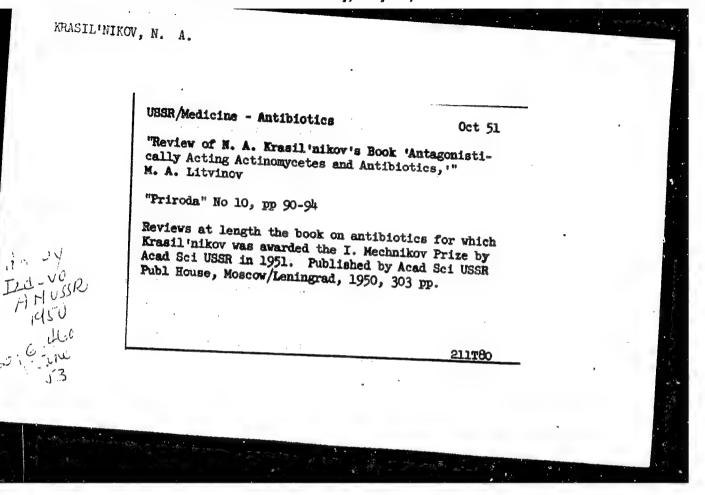
1. Studies: Antagonistic relationships of actinomyces (1500 cultures) and Sacteria (500 cultures) while cultivating them under conditions of isolated growth in

2. It was established that the microorganism antagonism, existing through the assistance of special substances, chemicals of active anti-microbic substances, in other words, anti-biotics, occur only between cultures belonging to a different species. 3. There is no intra-species antagonism of microorganisms. We never observed a situation where cultures truly belonging to the same species supressed one another by their anti-biotic substances. This weapon was directed against alien organizms, against rivals of other species. 4. Microbe-antagonists act selectively -- suppressing some species and activiating others. 5. The microbe-antagonists not only do not antagonize some alien forms, but are able to live with them, mutually atimulating a large collection of actinomyces and bacteria. In all cases, species which were well defined according to morphological-physiological features, gave clear indications of a homogeneousness of culture according to calculations by the experimental method . 9. Externally similar cultures of actinomyces, coelicolor, A. globisporus, A. griseus and others, proved to be a mixture of several completely independent species . 10. In group I of sporidiferous bacteria, where the Bacillus mesentericus &B. subtili s are concerned, four species appeared. On basis of the antagonistic relationship the systematic categorizing of B. mycoides & B. licheniformis was established.....

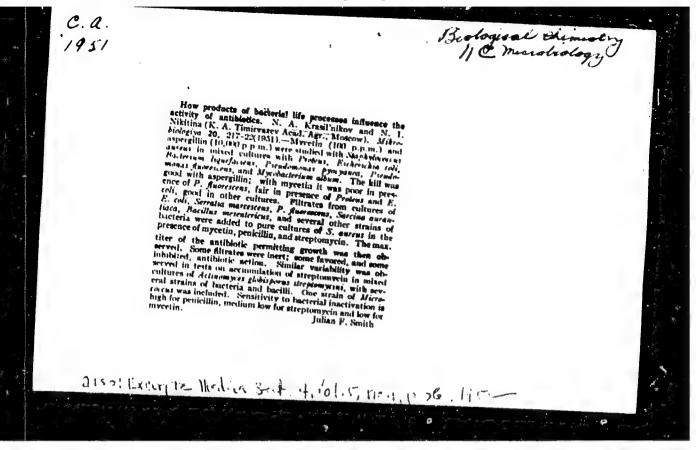
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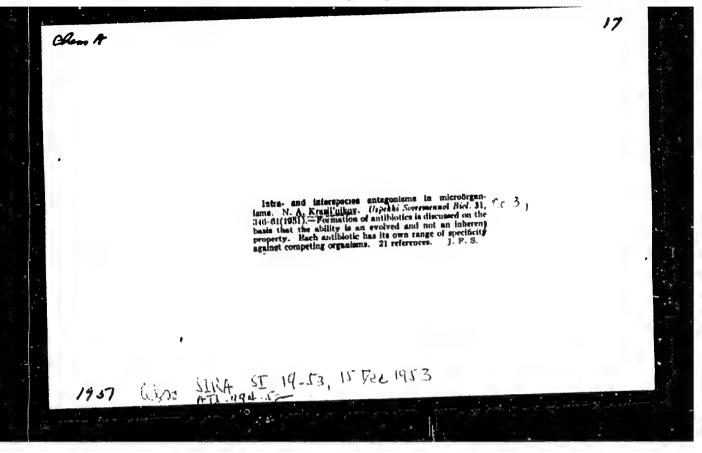


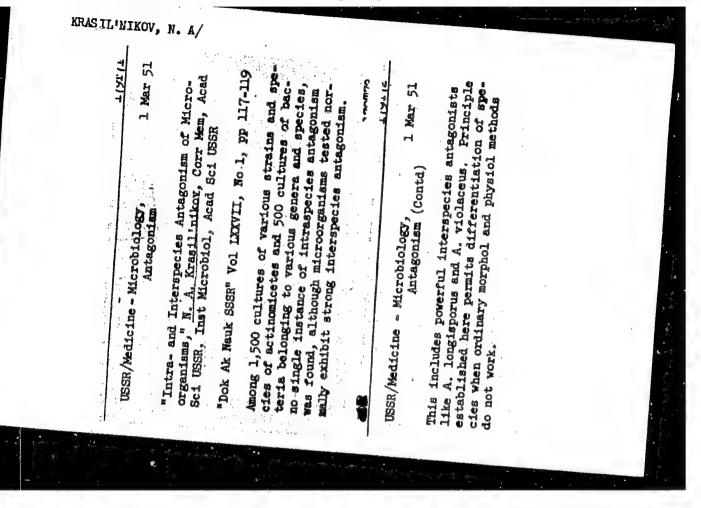
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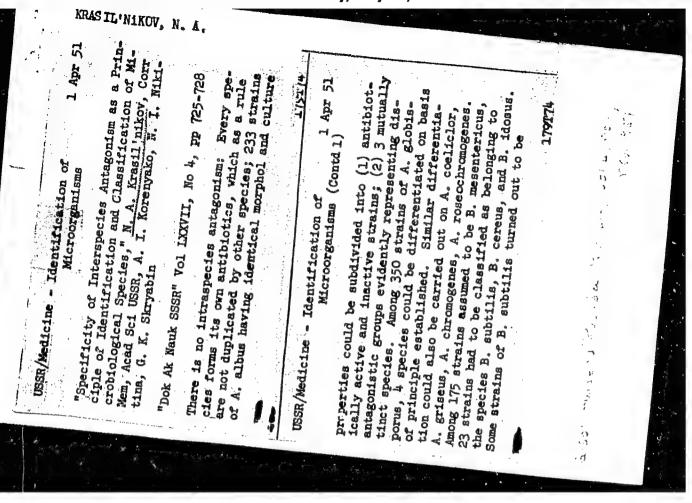






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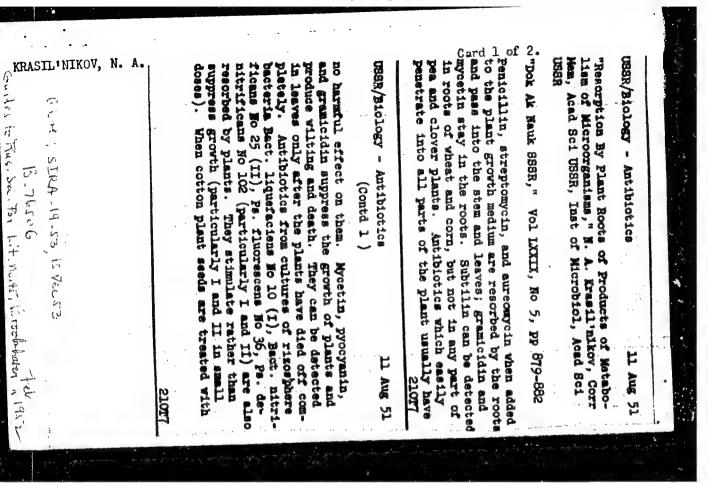
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# USSR/Hedicing = Identification = 1 Apr 51 Microorganisms (Contd 2)

B. mesentericus or B. idosus. B. mesentericus and B. subtilis, which otherwise resemble each other, could be classified on basis of sp antagonism as belonging to the 4 species B. mesentericus, B. subtilis, B. catenula, and B. idosus. Similarly, differentiation between B. licheniformis and B. differentiation between B. licheniformis and B. mycoides could be made. In the light of results obtained, one must conclude existing schemes of obtained, one must conclude existing schemes of species classification require considerable revision. Method has many practical applications in agr, med, vet practice, etc.

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KRASIL'NILOV,	, 14 • ¥ •	Card 2 of 2.	
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	USSR/Biology - Antibiotics (Contd 2)	11 Aug 51	
	an antibiotic before planting this be detected for several days in st the sprouts. There is a possibiliting immunity and combeting definitions.		
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KRASIL'NIKOV, N. A. , MIRZABFKIAN, R. O., and ASKORAVA, S. "Utilization of Antibiotics in Some Diseases of Plants (Pseudomonas malvarearum, Bacterium armeniaca, and Pseudomonas citriouteale)," Doklady Akademii Nauk SSSB, vol. 79, August 21, 1951, pp. 1025-1027. 511 P444A

SO: SIRA SI - 19-53, 15 December 1953

General of This Societae. Par. Let. No. 44. 12, redo haven that Lat., 3 et 1931

Problems of microbiology in wine making and viticulture; proceedings of the Conference on Microbioloty. 1950 Moskva, Ind-vo Akad. Lauk SUSR, 1952. 173p.

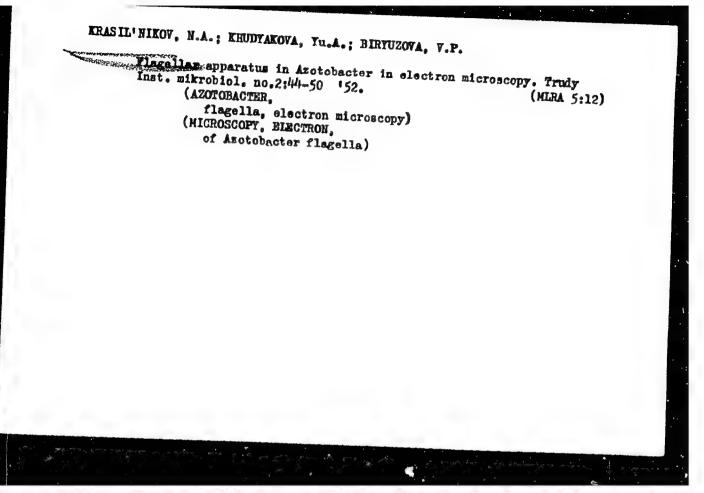
TP546.5.732

1. Wine and wine making -Dacteriology. I. Krasil'nikov, N.A., ed. 11. Akademiia mauk SSSR. Otdelenie biologicheskikh nauk.

KELSIL HILLOV, N. A.	Form long chains consisting of rod-shaped elements, which then change into cocci-shaped elements. The latter are formed as a result of division of the protoplasm of the rods into fragments (fragmentation spores). These fragmentation spores are formed in a manner similar to that observed in the case of mycobacteria and actinomycetes. Streptococci apparently are very close to actinoclass.	mata obtained by studying 3 strains of Str. lactis and 12 strains of Str. pyogenes showed that during the cultivation of streptococci on meat-peptone bouillon or meat-peptone-agar, the morphological structure and development of these microorganisms fully coincide with those of mycococci and mycobacteria. In the initial stage, the streptococci	"The Morphology and Development of Streptococci,"  W. A. Krasil'nikov  "Trudy Inst Mikrobici, Akad Nauk SSSR" No 2, 1952, pp. 33-43	USSR/Medicine - Microbiology Aug 52

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## KRASIL'NIKOV, N.A.

Microorganisms and soil productivity in the light of the teachings of V.R. Williams. Agrobiologiya '52, No.6, 57-72. (MLRA 6:1) (CA 47 no.14:7144 '53)

1. Inst. Microbiol., Acad. Sci U.S.S.R., Moscow.

- 1. KRASIL'-NIKOV, N. A., PROF.
- 2. USSR (600)
- 4. Rabukhim, A. E.
- 7. "Streptemycin in the treatment of tuberculosis." Rabukhin, A. Ye. Sev. med. 16 Ne.9, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

KRASIL'NIKOV, N. A.

#### USSR/Medicine - Antibiotics

Jan/Feb 52

"Antibiotic Properites of Pad' A Sugary Excretion of Plant Lice," N. A. Krasil'nikov, Inst of Microbiol, Acad Sci USSR

"Mikrobiologiya" Vol XXI, No 1, pp 19-22

Found that pad', which is found on trees in the vicinity of Moscow and is collected by bees as a material for honey production, serves as a breeding ground for the fungus Botrytis cinerea. This fungus evolves an antibiotic which is active against gram-pos bacteria. The antibiotic has a toxic effect on the trees where pad' occurs, particularly birches, causing necrosis of leaves.

2237733

KRASIL'NIKCV, N. A.

Plants - Mutrition

Role of microorganisms as supplementary plant nutrient. Usp. sovr. biol. 33 no. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 195%, Uncl.

ants.	group carried out. Deals with diseases produced the following agents: fusaria affecting flax, creals, pine seedlings, tea plants, and cotton; V reals, pine seedlings, tea plants, and cotton; V ficillium dahliae (cotton wilt); Bact. armeniaca (fruit wilt); Pseudom citriputealis (bacterial n crosis of citrus fruit); Pseudom. malvacearum (gummosis of cotton); Botrytis cinerea (on lettu Alternaria solani (on tomatoes); Pseudom. translucens (on barley); bacteria exerting a toxic ef con clover and other plants. Mentions 1946 report and other plants.	"Priroda" Vol 41, No 7, pp 17-27  Discusses the action of bacteria that protect plant against diseases and methods of practically employing these bacteria and the application of antibiotics resorbed by plants through the roots or introduced through the stem or leaves in order to combat diseases. Describes expts which he and his	USSR/Biology, Agriculture - Antibiotics, Plant Diseases "Antibiotics in the Cultivation of Plants," N. Krasil'nikov, Corr Mem, Acad Sci USSR
229T8	with diseases produced by saria affecting flax, ce- s plants, and cotton; ver- wilt); Bact. armeniaca riputealis (bacterial ne- Pseudom. malvacearum rytis cinerea (on lettuce); atoes); Pseudom. trans- ria exerting a toxic effect s. Mentions 1946 report ect of antibiotics on	tt protect plants tically employ- ton of anti- the roots or in- in order to nick he and his 22978	les, Jul 52 Diseases Lants, N. A.

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PA 245T1

KRASIL'NIKOV, N. A.

USSR/Biology, Agriculture - Enzymes 11 Nov 52

"Release of Enzymes by the Roots of Higher Plants," H. A. Krasil'nikov, Corr Mem Acad Sci USSR, Inst of Microbiol, Acad Sci USSR

"Dok Ak Hauk SSSR" Vol 87, No 2, pp 309-312

Reports experimental results which indicate that the roots of wheat, corn, and pea plants develop invertase, amylase, and protease. According to author's conclusions, the plants in question apparently release these enzymes into the soil.

245T1

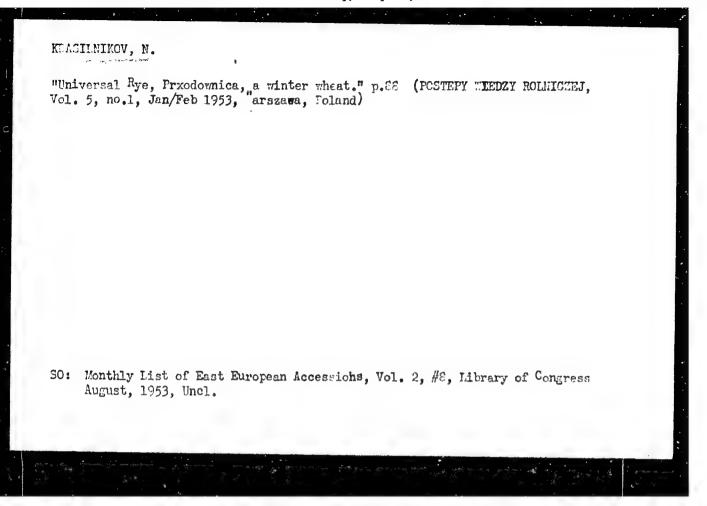
### KRASIL'NIKOV, N.A.

Microbe anatgonists and antibiotic substances in plant culture. Izvest. Akad. Nauk S.S.S.R., Ser. Biol. '53, No.2, 49-66. (MLRA 6:5) (CA 47 no.16:8177 '53)

#### KRASILNIKOV, N.

"The roll of micro-organisms in the supplementary feeding of plants" p 67 (POSTEPY WEIDZY ROLNICZEJ, Vol. 5, no 1, Jan/Feb 1953 Warszawa, Poland)

50: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress August, 1953, Uncl.



KRASIL'NIKOV, N. A.

"The Distribution of Actinomycetes Antagonists in the Soil," by N.A.Krasil'nikov, A.I.Korenyako, O. I. Artamonova, Inst. of Microbiology, AS USSR, Mikorbiologiya 22, No 1, pp 3-10, 1953.

Authors describe their research on the microflora of the soil in various parts of USSR. Their preliminary survey established a predominance of actinomycetes in the gray desert soil (serozem), with antagonists affecting primarily gram-positive bacteria. The actinomycetes in question were also found in humus-covered soil. Authors assume that the development of actinomycetes antagonists is controlled primarily by factors of the outside environment: climate, moisture, temperature, etc. 255T6

KHASILINTEDV, N. A.

USSR/Biology - Antibiotics,
Plant Diseases

21 Jun 53

"Inactivation by Antibiotics of the Toxin Formed by the Fungus Botrytis cinerea," N. A. Krasil'nikov, Corr Mem Acad of Sci USSR

DAN SSSR, Vol 90, No 6, pp 1159-1161

Tested the effect on the phytopathogenic fungus Botrytis cinerea of 50 antibiotic prepns derived from various species of actinomycetes. Found that some of these prepns counteracted the harmful effect of the toxin of Botrytis cinerea on birch leaves. Inactivation of the toxin was distinct

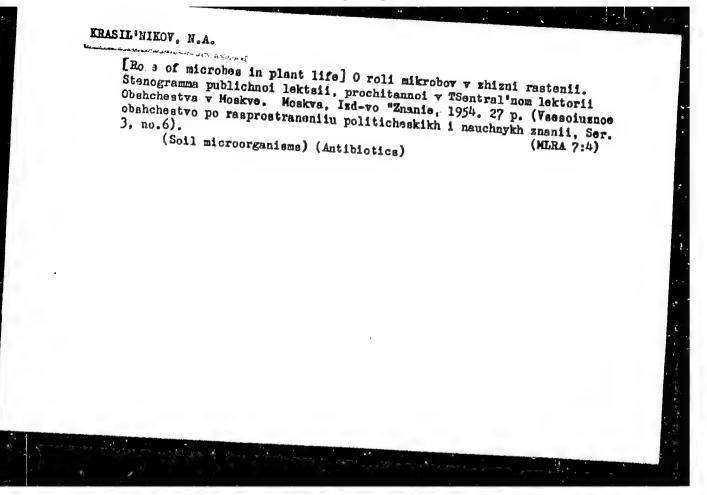
269T1

from the antibiotic effect on bacteria and Botrytis cinerea, i. e., it was caused by a substance other than the antibiotic.

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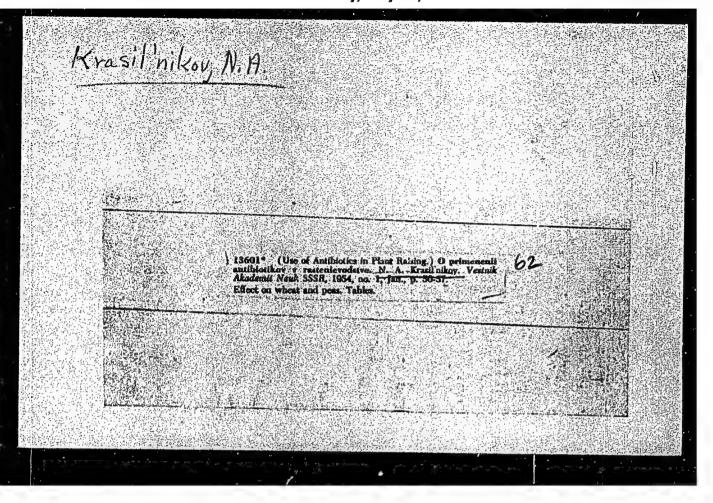


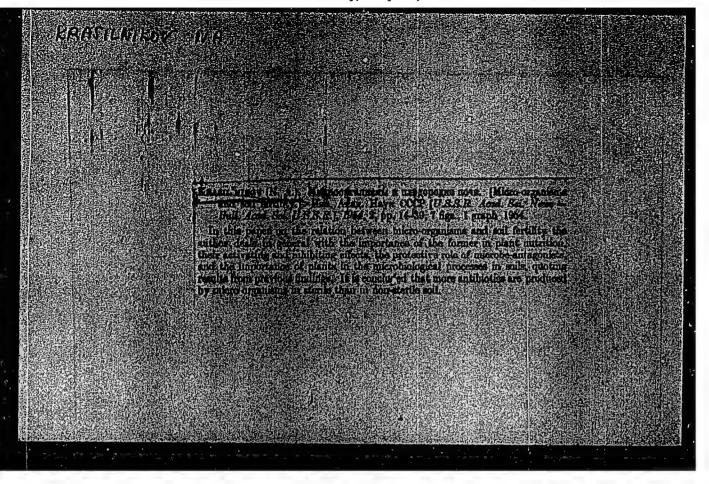
# KRASIL'NIKOY, N.A.

KIRCHENSTEINS, Augusts, 1872-; ZDRODOVSKIY, P.F., redaktor; REDIN, Ye.I., redaktor; ERASIL'NIKOV, N.A., redaktor BUKIN, B.N., doktor biologicheskikh nauk, redaktor; GAYSINOVICH, A.Ye., kandidat biologicheskikh nauk, redaktor; NEVRAYEVA, N.A., tekhnicheskiy redaktor

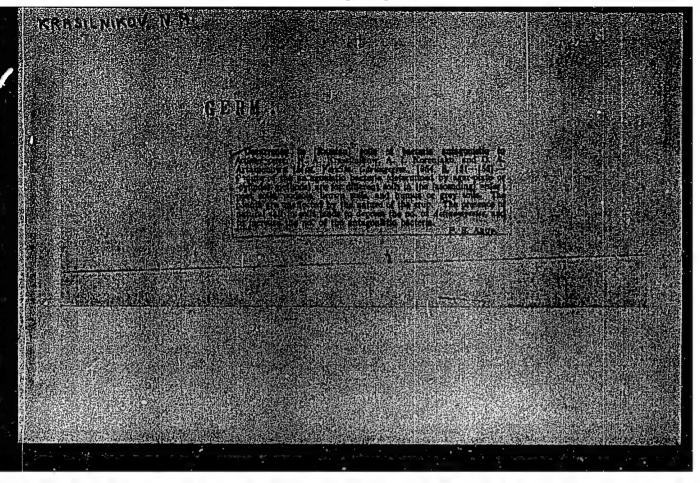
[Problems in microbiology and immunology; selected works] Problemy mikrobiologii i immunologii; immunologii;

1. Chlen-korrespondent AM SSSR (for Krasil'nikov). 2. Deystvitel'nyy chlen AMM SSSR (for Zdrodovskiy)
(Microbiology) (Immunity)





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Use of antibiotics in plant growing. Vest. AN SSSR 24 no.1:50-57
Ja '54. (MLRa 7:1)

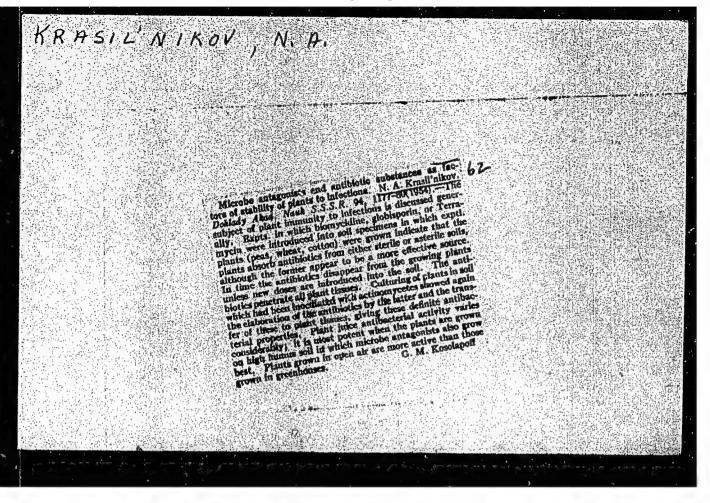
1. Chlen-korrespondent Akademii nauk SSSR. (antibiotics) (Plants)

KRASIL'HIKOV, M.A. (Moscow).

Mon-cellular forms in microorganisms. Usp.sovr.biol.37 no.1:22-32
Ja-F'54, (Microorganisms) (Gells)

Formation and accumulation of antibiotic substances in the soil. Dokl.AN SSSR 94 no.5:957-960 F 154. (MIRA 7:2)

1. Chlen-korrespondent Akademii nauk SSSR. 2. Institut mikrobiologii Akademii nauk SSSR. (Soil microorganisms) (Antibiotics)



KRASILNIKOV, N. A., KUCHAYEVA, A. G., NIKITINA, N. I. and SKRYABIN, G. K.

"Microbes - Antagonists in Plant Diseases," a paper presented at the Antibiotics R Research Conf., Peiping, 1-6 December 1955.

In Library. DB-38431

KRASILNIKOV, N. A.

"On the Classification of Actinomyces - Producers of Antibiotics," a paper presented at the Antibiotics Research Conf., Peiping, 1-6 December 1955.

In Library

DB-38131

"Soil - Climatic Factors, Metamorphosis of Microorganisms," same as above.

KRASILNIKOV, N. A.

"International Conference on Antibiotics, Washington," a paper presented at the Antibiotics Research Conf., Peiping, 1-6 December 1955

In Library
DB-38431

KRASIL'NIKOV, N.A., Member-Correspondent of the USSR Acad Sci

"On the Metabolism Changes in Soil Microorganisms"

Report given at jubilee held on June 20-21, 1955 in honor of 25th anniversary of foundation of Inst. of Microbiology, AS USSR

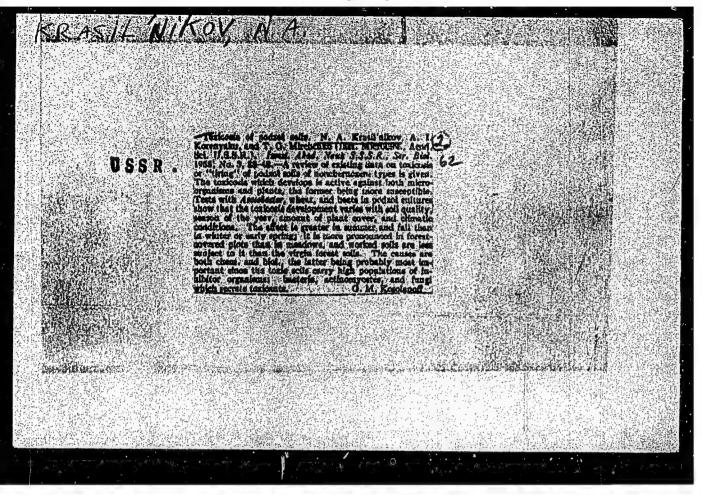
KRASIL'NIKOV, N.H.

RAUTENSHTEYN, Ya. I.; KRASIL'NIKOV, N.A., GOL'DIN, M.I., redaktor; GRAKOVA, Ye.D., tekhnicheskiy redaktor

[Bacteriophagy; general information on the phenomenon of phages and their significance for some industries] Bakteriofagiia; obshchie svedeniia o iavlenii fagii i ego znachenii v riade proizvodstv. Moskva, Izd-vo Akademii nauk SSSR, 1955. 141 p.

(MLRA 9:1)

1. Chlen-korrespondent AN SSSR, (for Krasil'nikov)
(Bacteriophagy)



KRASIL'HIKOV, N.A.

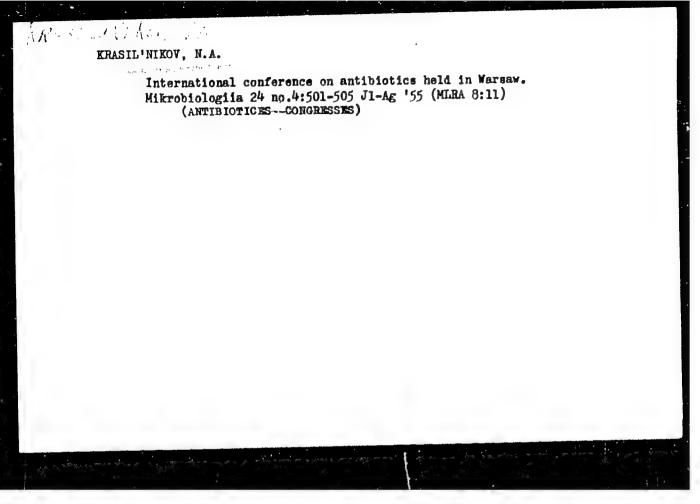
Soil and climatic factors in the variability of bacteria. Izv. AN SSSR Ser.biol. no.5:72-79 8-0 155. (MIRA 9:2)

1.Chlen-korrespondent AN SSSR. (Soils-Bacteriology)

KRISS, A.Ye; KRASIL'NIKOV, N.A.; HEYSEL', M.H.

Morozova-Vodianitskaia, Nina Vasil'evna, 1893-1955. Mikrobiologiia 24 no.2:258 Mr-Ap '55. (MLRA 8:7) (OBITUARIES,

Morozova-Vodianitskaja, Nina V.)



KPBSHIMIKON, N.

IMSHENETSKIY, A; KASHKIN,P.; KONOKOTINA, A.; KRASIL'NIKOV, N.; KRISS, A.: KUDRYAVTSE, V.; LITVINOV, M.; MEYSEL', M.; RAUTEUSHTEYN, Ya.

Aleksandra Alekseevna Bachinskaia; obituary. Mikrobiologiia 24 no.5:650-651 S-0 '55. (MLRA 9:1) (BACHINSKAIA, ALEKSANDRA ALEKSEEVNA, 1878-1955)

### "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826110

KRASIĽNIKOV, N. A.

USSR/ Biology - Antibeotics

Card 1/1

Pub. 124 - 16/30

Authors

Krasil'nikov, N. A., Memb, Corresp., Acad. of Sc., USSR

Title

International conference on antibiotics in Warsaw

Periodical

Vest. AN SSSR 25/7, 87 - 90, Jul 1955

Abstract

Notes are presented on the work of the International Conference on Antibiotics held in Warsaw-Poland during February 7 - 13, 1955. The conference attended by delegates from Bulgaria, Hungary, China, North Korea, Poland, Rumania, Ozechoslovakia and the USSR discussed problems concerning mass production of such antibiotics as: penicillin, streptomycin, aureomycin,

Institution :

Submitted

## KRASIL'NIKOV, N.A.

Induced variability in bacteria. Usp.sevr.biel.40 ne.2:179-191 S-0 '55. (BACTERIA) (MLEA 9:2)

KRASIL'NIKOV,N.A.

Collaboration of scientists in combating infections. Priroda 44 no.8:53-56 Ag '55. (MLRa 8:10)

1. Chlen-korrespondent Akademii nauk SSSR (Antibiotics)

# KRASIĽNIKOV, N.A.

USSR/Biology - Microbiology

Oard 1/1 Pub, 22 - 41/47

Authors Knowlinites II

Krasil'nikov, H. A., Hemb. Corresp., Ac. Sc., USSR, and Bezzubenkova, A. P.

Title • Effect of bacteria on the assimilation of organic substances by plants

Periodical | Dok. AN SSSR 101/6, 1127 - 1130, Apr. 21, 1955

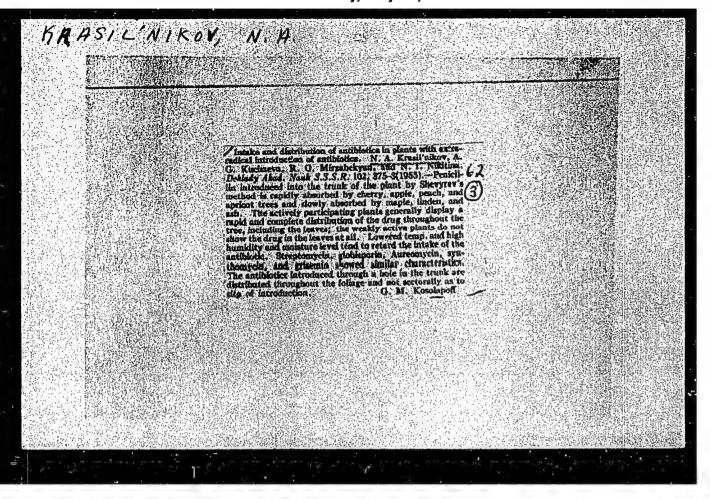
Abstract It was established experimentally that many microorganism of the soil provide plants not only with mineral elements during the mineralization of plant and animal residues but also with different organic substances products of natural metabolism. The importance of soil microflora on the assimilation of organic antibiotics by plants is explained. Two USSR re-

ferences (1952-1953). Tables; graphs; illustration.

Institution : .....

Submitted : January 15, 1955

### "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826110



USSR/Microbiology - General Microbiology,

F-1

Abs Jour

: Ref Zhur - Biol., No 3, 1958, 9742

Author

: Krasil'nikov, N.A.

Inst

. Masir mikov, M.A.

Title

: Classification of Actinomycetes which Produce Antibiotics.

Orig Pub

: V sb.: Antibiotiki. Eksperim. klinich. izuch. M., 1956,

51-58

Abstract

: The author believes that each species of microbe- antagornist inherently produces its own special antibiotic substances. External characteristics of actinomycetes may be indications only of large taxonomic categories. For purposes of a more accurate diagnosis the actinomycete biochemical properties and other phenomena must be utilized. Such indices can be the antibiotics. A purified antibiotic is inactive not only in regard to its own producer, but also in regard to all strains which belong to the same species. In the author's collection there are

Card 1/2

### USSIAMPROMED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86±00513R000826 10(

'Abs Jour

: Ref Zhur - Biol., No 3, 1958, 9742

more than 300 cultures of Actinomycetes globisporum streptomycini, isolated from different Soviet soils. They are all resistant to streptomycin, are not mutually antabonistic and form the same antibiotic—streptomycin. Actinomycete—antagonists do not inhibit all alien species by their antibiotics, but only definite competitors in accordance with species specificity. The cited properties of antagonistic actinomycete interrelationships and the specificity of species reaction of antibiotic substances are quite fixed and may serve as good identifying indices in the species systematization and for antibiotic differentiation.

PARELLIZARM, Mill.

### 114. Derivation and Use of the Antibiotic Grizin

"The Antibiotic Grizin (Grizemin) and Its Producers," by N. A. Krasil'nikov and Corresponding Members of the Academy of Sciences USSR A. N. Belozerskiy, Ya. A. Rautenshteyn, A. I. Korenyako, N. I. Nikitina, A. I. Sokolova, and S. O. Uryson; Institute of Microbiology and Institute of Biochemistry imeni A. N. Bakh, Academy of Sciences USSR; Doklady Akademii Nauk SSSR, Vol 3, No 5, 11 Dec 56, pp 1117-1121

The derivation of the antibiotic Grizin or No 15 obtained from Actinomyces griseus is described. Producers of grizin are widely distributed in nature, but are obtained mainly from gray and chestnut brown soils.

The antibiotic grizin possesses a wide spectrum of action. It degresses a number of gram-positive and gram-negative microbes and certain yeasts and fungi. Grizin preparations derived from strains No 15, 20, 70, 101, and 111 are not affected by either serum or pus, according to investigations conducted by V. V. Doromyslov of the Chair of Microbiology, Leningrad Chemicopharmaceutical Institute. Its relative toxicity was established at the G. N. Pershin Laboratory, All-Union Scientific-Research Chemicopharmaceutical Institute. The maximal dose of grizin preparations tolerated by mice was found to be from 0.0125 to 0.5 grams when administered for a period of 6-10 days. It is effective in the control of dysentery and certain plant diseases. (U)

### "APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826110

ERMILNIKOV, N.A.

USSR/General Division - Congresses. Sessions. Conferences.

A-4

Abs Jour

: Ref Zhur - Biologiya, No 1, 1957, 92.

Author

N.A. Krasil'nikov

Inst

Title

: Antibiotics in Agriculture. At the International Confe-

Orig Pub

: Privoda, 1956, No 4, 72-75.

Abst

: A conference on antibiotics (A) was held in October 1955. Delegations from England, Denmark, Belgium, France, Spain, USSR, United States, and other countries took part in the conference. Problems connected with the application of A in plant growing, animal husbandry, with the aim to preserve food products were discussed. Considerable attention was given to problems bearing on animal husbandry (40 reports). It was indicated that supplementing the animals with A produced good results only at an early age; the addition of A to the feed of grown

Card 1/4

USSR/General Division - Congresses. Sessions. Conferences.

A-4

Abs Jour

: Ref Zhur - Biologiya, No 1, 1957, 92.

cattle produces no effect (Mak-Zheynis, Kunga, and others). It was noted also that a positive effect is obtained by only small doses of A (1-10 g to 1 ton of feed); greater doses were found to be toxic and were ineffective as a growth stimulant. The effectiveness of the application of A depends simultaneously on the conditions in which the livestock is kept, the composition of the food rations, and other factors. A number of reports were devoted to the experimental investigation of the mechanism of the action of A (Baumann, Faynlyand, and others), the appearance in the organism of resistant strains of microbes after the prolonged action of A. Considerable attention was given to works on experiments with A used to preserve produce from spoilage; the investigation of parts and organs processed with A; methods of processing and the duration of the preservation of antibiotic substances in produce; and also the longevity of bacteria in the

Card 2/4

USSR/General Division - Congresses. Sessions. Conferences.

A-4

Abs Jour : Ref Zhur - Biologiya, No 1, 1957, 92.

produce. It was noted that in order to preserve beef, A is introduced into the body of the animal 2 to 4 hours before its slaughter; information was given on the period of time eggs are preserved if A is introduced into the bodies of chickens before the eggs are laid (Rendal). A number of reports convincingly proved that the partaking of A with food by man presents no danger to immunity and does not lead to the formation of resistant strains. Little attention was given to the problem of the application of A in plant growing since insufficient data was available on this problem. A is widely utilized by American scientists (Zaumeyer, Yunga and others) in diseases of fruit and decorative trees. The following members of the Soviet delegation also addressed the conference: N.A. Krasil'nikov who spoke on the subjects "Antibiotics and their Utilization in Plant Growing in the USSR" and "Actinomyces, Producers of Antibiotics, and their

Card 3/4

USSR/General Division - Congresses. Sessions. Conferences.

A-4

Abs Jour : Ref Zhur - Biologiya, No 1, 1957, 92.

classification"; A.A. Polyakov, on the subject "Antibiotics and their Utilization in Veterinary Medicine in the USSR"; and Ye.N. Mischustin who spoke on the subject "Phenomenon of Antagonism and the Effectivenes of Bacterial Fertilizers".

Card 4/4

Antibiotics in stock raising. Nauka i pered. op. v sel'khoz.
no.10:11-12 0 '56. (MLRA 9:12)

I. Institut mikrobiologii AN SSSR.
(Antibiotics) (Veterinary medicine)

KRASILMIKOV, N.A.

USSR/Microbiology - General Microbiology

F-1

Abs Jour

: Referat Zhurn - Biol. No 16, 25 Aug 1957, 68357

Author

: Krasilnikov, N.A., Bekhtereva, M.N.

Title

: The Application of a Method of Fluorescent Microscopy for Identification of Live and Dead Actinomycete Cells.

Orig Pub

: Mikrobiologiya, 1956, 25, No 3, 279-285

Abstract

of the 15 species of actinomycetes investigated, belonging to 7 different groups, the brightest natural (primary) luminescence belonged to Actinomyces violaceus, A. aureofaciens and actinomycetes of the orange-red group. Fluorochroming by acridin orange (AO) does not permit any differentiation of a live mycelium of actinomycetes from a dead one; the color of luminescence depends on the concentration of the coloring agent, quantity of mycelium and other factors. AO is quite toxic to actinomycetes; in concentration of 1:10,000 it causes destruction of 95% of the culture. For differentiation of live from

Card 1/2

1.

### "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826110

USSR/Microbiology - General Microbiology

F-1

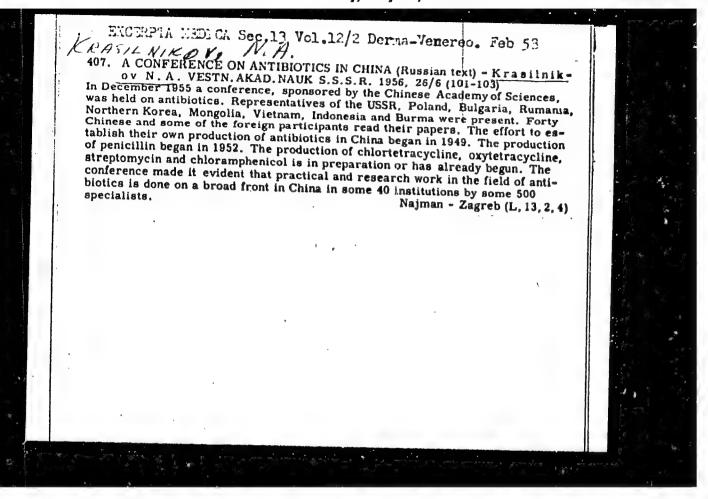
Abs Jour

: Referat Zhurn - Biol. No 16, 25 Aug 1957, 68357

dead mycelium of actinomycetes, a fluorochroming by primulin was found useful, as suggested for other substances.

Card 2/2

- 5 -



Alpine rock microflora and its nitrogen-fixing activity. Usp.sovr.
biol. 41 no.2:177-192 Mr-Ap '56. (MIRA 9:8)
(AIPINE FLORA)
(MICRO-ORGANISMS, NITROGEN-FIXING)

# Antibiotics in agriculture at the international conference in Washington. Prireda 45 no.4472-75 Ap \*56. 1.Chlen-korrespondent Akademii nauk SSSR. (Antibiotics) (Stock and stockbrooding)

RASILIIKOU, N.A.

USSR/Plant Diseases. Diseases of Cultivated Plants.

Abs Jour : Ref Zhur - Biologiya, No 16, 25 Aug 57, 69566

Author

: Krasilnikov, N.A., Kublitskaya, M.A.

Title

: Microbial Toxins and Antitoxins in Formation of Grapevine

Chlorosis.

Orig Pub : Dokl. AN SSSR, 1956, 110, No 4, 703-705

Abstract : Colorosis is manifested in the slight curling of leaves and their yellowing with a subsequent lightening, thin sprouts, shortened internodes and a large number of short suckers. The diseased vines lower the yield or become totally sterile. In Mid-Asian conditions, one of the causes of chlorosis is the poisoning of the vines by fungi toxins of genus Fusarium, which penetrate into the inner portion of the diseased plant roots. Most often, they are F. culmorum, F. solani, F. equiseti and scirpi. In healthy plants, these fungi concentrate in the inner bark portion of the root and do not

Card 1/1

### APPROVED FOR RELEASE: Monday, July 31, 2000

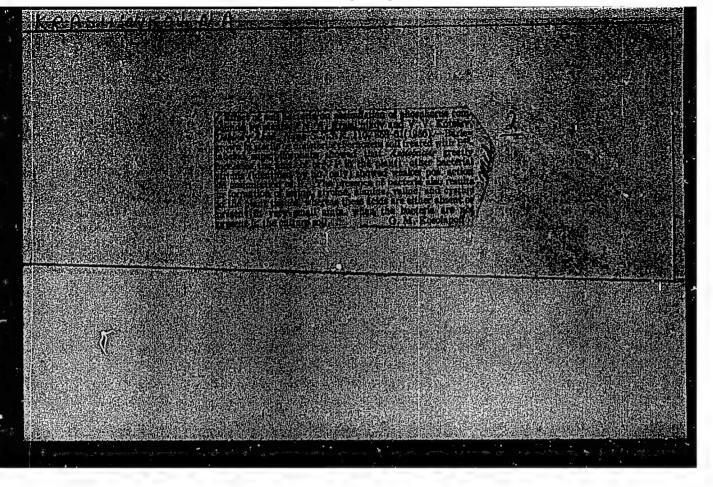
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USSR/Plant Diseases. Diseases of Cultivated Plants.

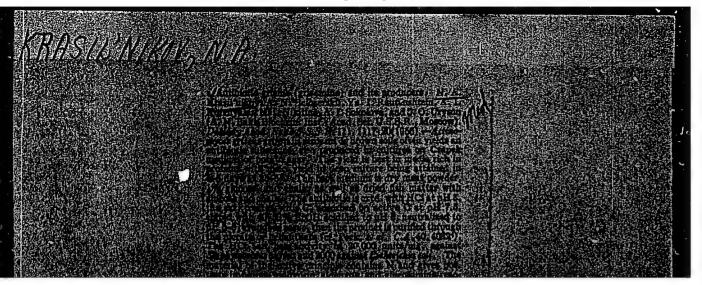
Abs Jour: Ref Zhur - Biologiya, No 16, 25 Aug 57, 69566

Abstract : penetrate deeply. When prolonged, the action of weak concentrations of the toxins on grape seedlings produced the symptoms of chlorosis. The typical indications of chlorosis also appeared as a result of artificial infection of 2 year old sets by a pure culture of the fungus placed in a cut in the bark. Of the isolated 356 actinomycete cultures, there were selected the strains A. griseus, A. globisporus, A. marginatus, A. sp., the natant liquid of which inactivates the fusarium toxins.

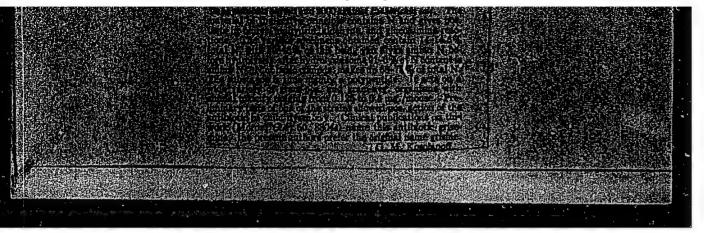
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### "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826110



J Soil Science. Biology of Soils. Country Category

RZhBiol., No 6, 1959, No 24629 Abs Jour

Krasil'nikov, N. A.; Kotelev, V. V.; Sabel'-nikova, V. I.; Sergeyeva, N. V. Author

Moldavian Branch of AS USSR. The Effect of Soil Bacteria on the Assimila-Inst tion by Plants of Phosphorus from Tricalcium Title

Izv. Mold. fil. AN SSSR, 1957, No. 9, (42), Orig Pub 127-133

Barley, in sand cultivation with Ca<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub> marked with p32 as a source of phosphorus, was Abstract grown under stayile conditions with the addition of bacteria cultures, which were isolated from the Moldavian soil and which decompose tricalcium phosphate. Bacterization increased P assimilation by the plants and their con-

1/2 Card

Country USSR CAPIPALOWED FOR SELLEAS Ein Monday, July 31, 2000 CIA-RDP86-00513R00082

Abs Jour RZhBiol., No 6, 1959, No 24629

Author Inst Title Orig Pub

:

Abstract tent of water-soluble, protein and lipoidal P. Bacterization affected the qualitative composition and quantity of amino acids (they were analyzed chromatographically in an alcoholic extraction of the plants) and also increased the assimilation of P by barley in the soil culture. -- T. M. Bushuyeva

Card 2/2

### "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826110

KRASIL'NIKOV, N. A. (Prof., Corres. Mor. Acad. Sci. USSR)

"Concerning Classification of Actinomycetins -- Producers of Antibiotics,"

p. 51, Ministry of Health USSR Proceedings of the Second All-Union Conference on Antibiotics, 31 May - 9 June 1957, Moscow, Medgiz, pp.405, 1957. Under the section Experiments in the Study of Antibiotics.

USSR / Virology. Bacterial Viruses (Phages)

E-1

Abs Jour : Ref Zhur - Biol., No 2, 1958, No 4981

Author : Krasil'nikov, N.A., Kofanova, N.D.

Inst : Not given

Title : Effect of Antibiotics on Phages

Orig Pub: Antibiotiki, 1957, 2, No 1, 5-10

Abstract: Over 500 antinomycete cultures were tested, belonging to different groups and species, for the ability to produce substances which possess an antiphage activity with respect to a number of bacteriophages and actinophages. Nearly 90-98% of actinomycete cultures tested inhibited one or another actinophage, and ~ h1% bacteriophages. General mechanisms of actinomycete antiphage activity basically resemble the mechanisms of their antibacterial properties.

Card : 1/2

### "APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826110

USSR / Virology. Bacterial Viruses (Phages)

E-1

Abs Jour : Ref Zhur - Biol., No 2, 1958, No 4981

ty, others a more restricted one. No correlation was found between antiphage and antivirus activity of actinomycetes. Many antinomycetes which possess marked antiphage activity did not inhibit tested viruses of grippe, small pox, and Siberian encephalitis. In the author's opinion, antiphage properties cannot serve as an index of activity of a given substance against viruses in general.

Card : 2/2

KRASIL'NIKOY, N. A. KRASILINIKOV, N.A.; BELOZERSKIY, A.N.; RAUTENSHTEYN, Ye.I.; KORENYAKO, A.I.; NIKITINA, N.I.; SOKOLOVA, A.I.; URYSON, S.O. The antibiotic grisein (grisemin) and its producers [with summary in English]. Mikrobiologiia 26 no.4:418-425 J1-Ag '57. (MIRA 10:12) 1. Institut mikrobiologii AN SSSR i Institut biokhimii im. A.N.Bakha AN SSSR, Moskva. (ANTIBIOTICS. grisemin, prod. organisms (Rus))